

PRODUCTION OF FOAMED POLYESTER FIBER

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Abstract of JP7252724

PURPOSE: To provide a process for the continuous production of a foamed polyester fiber having a small diameter and a high foaming ratio and containing fine closed cells in high productivity.

CONSTITUTION: A foamed polyester fiber is produced by melting a thermoplastic polyester resin containing a foaming agent in an extruder and extruding the molten resin into a low-pressure region through an extrusion orifice of a die attached to the tip end of the extruder. In the above process, the thermoplastic polyester resin is incorporated with inert inorganic fine particles having an average primary particle diameter of $\leq 2\mu\text{m}$ as foaming nuclei and the resin is extruded by keeping the back pressure of the extrusion orifice to 50-300kg/cm² and allowing the resin to spend 1-15m-sec for passing through the extrusion orifice.

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